

Exercise - 5.10

Find the quotient and the remainder -

$$1) 302 \div 10 \quad Q = \underline{30} \quad R = \underline{2}$$

$$\begin{array}{r} 30 \\ 10 \overline{) 302} \\ \underline{-30} \\ 2 \\ \underline{-0} \\ \boxed{2} \end{array}$$

$$\begin{aligned} \text{Dividend} &= \text{Quotient} \times \text{Divisor} + \text{Remainder} \\ &= 30 \times 10 + 02 \\ &= 300 + 02 \\ &= 302 \end{aligned}$$

$$2) 600 \div 10 \quad Q = \underline{60} \quad R = \underline{0}$$

$$\begin{array}{r} 60 \\ 10 \overline{) 600} \\ \underline{-60} \\ 000 \\ \underline{-0} \\ \boxed{0} \end{array}$$

Check:-

$$\begin{aligned} \text{Dividend} &= \text{Quotient} \times \text{Divisor} + \text{Remainder} \\ &= 60 \times 10 + 0 \\ &= 600 + 0 \\ &= 600 \end{aligned}$$

$$3) 2299 \div 10 \quad Q = \underline{229} \quad R = \underline{09}$$

$$\begin{array}{r} 229 \\ 10 \overline{) 2299} \\ \underline{-20} \\ 29 \\ \underline{-20} \\ 99 \\ \underline{-90} \\ \boxed{09} \end{array}$$

Check:-

$$\begin{aligned} \text{Dividend} &= \text{Quotient} \times \text{Divisor} + \text{Remainder} \\ &= 229 \times 10 + 09 \\ &= 2290 + 09 \\ &= 2299 \end{aligned}$$

$$4) 3247 \div 10 \quad Q = \underline{324} \quad R = \underline{07}$$

$$\begin{array}{r} 324 \\ 10 \overline{) 3247} \\ \underline{-30} \\ 024 \\ \underline{-20} \\ 47 \\ \underline{-40} \\ \boxed{07} \end{array}$$

Check:-
Dividend = Quotient \times Divisor + Remainder
= $324 \times 10 + 07$
= $3240 + 07$
= 3247

$$5) 5736 \div 10 \quad Q = \underline{573} \quad R = \underline{06}$$

$$\begin{array}{r} 573 \\ 10 \overline{) 5736} \\ \underline{-50} \\ 073 \\ \underline{70} \\ 036 \\ \underline{-30} \\ \boxed{06} \end{array}$$

Dividend = Quotient \times Divisor + Remainder
= $573 \times 10 + 06$
= $5730 + 06$
= 5736

$$6) 6208 \div 100 \quad Q = \underline{62} \quad R = \underline{8}$$

$$\begin{array}{r} 62 \\ 100 \overline{) 6208} \\ \underline{-600} \\ 208 \\ \underline{-200} \\ \boxed{008} \end{array}$$

Dividend = Quotient \times Divisor + Remainder
= $62 \times 100 + 8$
= $6200 + 8$
= 6208

$$7) 5119 \div 100 \quad Q = \underline{51} \quad R = \underline{19}$$

$$\begin{array}{r} 51 \\ 100 \overline{) 5119} \\ \underline{-500} \downarrow \\ 119 \\ \underline{-100} \\ \boxed{019} \end{array}$$

check:-

$$\begin{aligned} \text{Dividend} &= \text{Quotient} \times \text{Divisor} + \text{Remainder} \\ &= 51 \times 100 + 19 \\ &= 5100 + 19 \\ &= 5119 \end{aligned}$$

$$8) 8947 \div 100 \quad Q = \underline{\quad} \quad R = \underline{\quad}$$

$$9) 9000 \div 100 \quad Q = \underline{\quad} \quad R = \underline{\quad}$$

$$10) 4281 \div 100 \quad Q = \underline{\quad} \quad R = \underline{\quad}$$